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AMENDMENTS TO THE CLAIMS:

Claims 1-11. (Cancelled)

12. (Currently Amended) An arrangement for the detection of fluorescent light comprising:

at least one imaging microscope unit <u>for determining and selecting</u> measurement locations for an analysis of molecular interaction in at least two dimensions;

at least one device component at least one device unit for analyzing the molecular interactions in small volumes;

imaging method means for determining and selecting measurement locations for the analysis of molecular interaction in at least two dimensions;

a shared control unit for operating the imaging microscope unit and the <u>at least</u> one device <u>unit components</u>; and

said control unit and a computer for graphically depicting at least the results from analyzing the molecular interactions in small volumes analysis results of the device components.

wherein the at least one device unit provides data and analysis based on a correlation with the image of the imaging microscope unit

wherein the computer performs an analysis of molecular interactions carried out by fluorescence correlation spectroscopy (FCS) and the unit for imaging is based on the principle of laser scanning microscopy.

- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Currently Amended) The arrangement according to claim 12, <u>further</u> comprises a movable specimen table and/or vertical adjustment of the objective for the wherein the selection of the specimen location for FCS measurement is carried out manually and/or automatically by a movable specimen table and/or vertical adjustment of the objective.
- 16. (Currently Amended) The arrangement according to claim 12, <u>further</u> comprises at least one scanner for wherein the selection of the specimen location is carried out manually and/or automatically for the FCS measurement by at least one scanner.

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17. (Currenlty Amended) The arrangement for detecting the light coming from an illuminated specimen according to claim 12, eomprising wherein the at least one imaging microscope unit is a laser scanning microscope (LSM) and an arrangement which is coupled into the illumination beam path of the LSM between the scanner of the LSM and the specimen for excitation and detection by FCS via a shared evaluation unit.

- 18. (Currently Amended) The arrangement for detecting the light coming from an illuminated specimen according to claim 12, comprising wherein the at least one imaging microscope unit is a laser scanning microscope (LSM), wherein, besides LSM detectors, and additional detectors are arranged following the scanner of the LSM in the detection direction for detecting FCS signals and/or the operating mode of the LSM detectors is switched to FCS evaluation by a shared control unit.
- 19. (Currently Amended) A method for detecting the light coming from an illuminated specimen according to claim 12, comprising the steps of:

scanning the specimen is by focusing illumination light from point to point at least in two dimensions;

detecting light coming from the specimen via at least a first detector; and carrying out an Fluorescence Correlation Spectroscopy (FCS) evaluation during the scanning process and/or after the scanning process for at least one specimen point; and

storing and allocating the value detected during scanning and the at least one value detected in the FCS evaluation.

20. (Cancelled)

- 21. (Previously Presented) The method according to claim 19, wherein the preceding method steps are carried out for a plurality of specimen points which are preselected automatically and/or manually.
- 22. (Currently Amended) The method according to claim 19, including further comprising the step of providing for shared graphic depictions of the values determined during scanning and during the FCS evaluation.

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23. (New) The method according to claim 19, further comprising the step of initiating an FCS measurement when the scanner is stopped during the scanner process.